



JAN 18 2012

Glenn Sizemore
Air Products Manufacturing Corporation
1010 Zephyr Street
Stockton, CA 95206

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # N-802
Project # N-1091430**

Dear Mr. Sizemore:

The District has issued the Final Renewed Title V Permit for Air Products Manufacturing Corporation. The preliminary decision for this project was made on November 3, 2011. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation. These permits address all deficiencies cited by the EPA in their objection.

The public notice for issuance of the Final Renewed Title V Permit will be published approximately three days from the date of this letter.

Thank you for your cooperation in this matter. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner
Director of Permit Services

Attachments

cc: Thom Maslowski, Permit Services Engineer

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
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Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
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JAN 18 2012

Gerardo C. Rios, Chief
Permits Office (AIR-3)
U.S. EPA - Region IX
75 Hawthorne St.
San Francisco, CA 94105

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # N-802
Project # N-1091430**

Dear Mr. Rios:

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I would like to thank you and your staff for working with us. We appreciate your concurrence with this action. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

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JAN 18 2012

Mike Tollstrup, Chief
Project Assessment Branch
Air Resources Board
P O Box 2815
Sacramento, CA 95812-2815

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # N-802
Project # N-1091430**

Dear Mr. Tollstrup:

The District has issued the Final Renewed Title V Permit for Air Products Manufacturing Corporation. The preliminary decision for this project was made on November 3, 2011. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation. These permits address all deficiencies cited by the EPA in their objection.

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Stockton Record

**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT
NOTICE OF FINAL DECISION TO ISSUE
RENEWED FEDERALLY MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District has made its final decision to issue the renewed Federally Mandated Operating Permit to Air Products Manufacturing Corporation for its electric power plant 1010 Zephyr Street in Stockton, California.

The District's analysis of the legal and factual basis for this proposed action, project #N-1091430, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. For additional information regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900, or contact David Warner, Director of Permit Services, in writing at SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CA 93726-0244.

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Final Title V Permit Renewal Evaluation
Air Products Manufacturing Corporation
N-802

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TITLE V PERMIT RENEWAL EVALUATION
Coal-fired Electrical Generation Plant

Engineer: Thom Maslowski
Date: October 19, 2011

Facility Number: N-802
Facility Name: Air Products Manufacturing Corporation
Mailing Address: 1010 Zephyr St
Stockton, CA 95206

Contact Name: Glenn Sizemore
Phone: (209)983-0391

Responsible Official: Glenn Sizemore
Title: Plant Manager

Project # : N-1091430
Deemed Complete: 4/8/2009

I. PROPOSAL

Air Products Manufacturing Corporation was issued a Title V permit on April 28, 2000. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

The purpose of this evaluation is to provide the legal and factual basis for all updated applicable requirements and to determine if the facility will comply with these updated requirements. It also specifically identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

II. FACILITY LOCATION

Air Products Manufacturing Corporation is located at 1010 Zephyr Street, Stockton, California.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is included as Attachment C.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is requesting to use the following model general permit Templates:

A. Template SJV-UM-0-3 Facility Wide Umbrella

The applicant has requested to utilize template No. SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Renewed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA or public review.

Conditions 1 through 40 of the requirements for permit unit N-802-0-3.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

- District Rule 2020, Exemptions (amended August 18, 2011)

- District Rule 2201, New and Modified Stationary Source Review Rule (amended April 21, 2011)
- District Rule 4101, Visible Emissions (amended November 15, 2001⇒ amended February 17, 2005)
- District Rule 4306, Boilers, Steam, Generators and Process Heaters – Phase 3 (amended October 16, 2008)
- District Rule 4352, Solid Fuel Fired Boilers, Steam Generators, and Process Heaters, (amended May 15, 2006)
- 40 CFR Part 60, Subpart A, General Provisions
- 40 CFR Part 60, Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978
- 40 CFR 60 Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978
- 40 CFR Part 60, Subpart HHHH, Emission Guidelines and Compliance Times for Coal-Fired Electric Steam Generating Units
- 40 CFR Part 60, Subpart DDDD, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters

B. Rules Added

- District Rule 4320, Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr (October 16, 2008)

C. Rules Not Updated

- District Rule 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)

- District Rule 4001, New Source Performance Standards (amended April 14, 1999)
- District Rule 4102, Nuisance (amended December 17, 1992)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4202, Particulate Matter - Emission Rate (amended December 17, 1992)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- District Rule 7012, Hexavalent Chromium – Cooling Towers (amended December 17, 1992)
- 40 CFR Part 60, Subpart GG, Standards of Performance for Stationary Gas Turbines
- 40 CFR Part 64, Compliance Assurance Monitoring
- 40 CFR Part 72, Permits Regulation
- 40 CFR Part 73, Sulfur Dioxide Allowance System
- 40 CFR Part 75, Continuous Emission Monitoring
- 40 CFR Part 77, Excess Emissions

D. Rules Covered by Template

The following rules are covered by the umbrella template and will not be further discussed in the evaluation:

- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)

- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4601, Architectural Coatings (amended December 17, 2009)
- District Rule 8011, General Requirements (amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031, Bulk Materials (amended August 19, 2004)
- District Rule 8041, Carryout and Trackout (amended August 19, 2004)
- District Rule 8051, Open Areas (amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
- 40 CFR Part 82, Subpart F, Stratospheric Ozone

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable Through Title V Permit".

District Rule 4102, Nuisance (as amended December 17, 1992)

Condition 41 of permit unit -0-2 are based on District Rule 4102 and will therefore not be discussed any further.

VIII. PERMIT REQUIREMENTS

The purpose of this evaluation is to review changes to federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the initial Title V permit.

District Rule 2201- New and Modified Stationary Source Review

District Rule 2201 has been amended since this facility's initial Title V permit was issued. This Title V permit renewal does not constitute a modification per section 3.26, defined as an action including at least one of the following items:

- 1) Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.
- 2) Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.
- 3) An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.
- 4) Addition of any new emissions unit which is subject to District permitting requirements.
- 5) A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

Therefore, the updated requirements of this rule are not applicable to the permits being renewed as a part of this project.

District Rule 2520 – Federally Mandated Operating Permits

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

Rule 4306 - Boilers, Steam Generators and Process Heaters – Phase 3

Section 5.1.1 requires the permittee to meet 9 ppmvd NO_x @ 3% O₂ and 400 ppmvd CO @ 3% O₂ concentrations.

The applicant has proposed to meet 7.0 ppmvd NO_x @ 3% O₂ and 50 ppmvd CO @ 3% O₂. Therefore, compliance is expected with this section.

Section 5.4.2 lists various monitoring schemes, such as CEMS, portable analyzer, flue gas recirculation rate etc., can be used to ensure on-going compliance with NO_x and CO emission limits. APMC has proposed to monitor flue gas recirculation rate on hourly basis. The conditions 28 through 31 on permit N-802-9-10 show compliance with this section.

Section 6.1 requires that the records required by Sections 6.1.1 through 6.1.3 shall be maintained for five calendar years and shall be made available to the APCO upon request. Failure to maintain records or information contained in the records that demonstrate noncompliance with the applicable requirements of this rule shall constitute a violation of this rule. Condition 42 listed on N-802-9-10 shows compliance with this section.

Section 6.2 lists various test methods to measure NO_x, CO, O₂ concentrations. Condition 16 and conditions 24 through 26 listed on N-802-9-10 show compliance with this section.

Section 6.3.1 requires the permittee to perform source test at least once every 12 months to verify compliance with applicable rule limits. Condition 17 listed on N-802-9-10 shows compliance with this section.

Compliance is expected with this Rule.

Rule 4320 Advanced Emission Reduction Options for Boilers, Steam Generators and Process Heaters Greater than 5.0 MMBtu/Hr

The purpose of this rule is to limit emissions of NO_x, CO and SO_x and PM₁₀ from boilers, steam generators, and process heaters. Therefore, the boiler N-802-9-10 subject to this rule.

Sections 5.1 and 5.2 require that unit with a rated heat input between 5 and 20 MMBtu/hr be in compliance with the NO_x emissions limit of 9 ppmv (or 0.011 lb/MMBtu) by July 1, 2012 or 6 ppmv (0.007 lb/MMBtu) by January 1, 2014.

The boiler, N-802-9-10 is currently permitted to operate at 7 ppmv NO_x by condition 6. Therefore, compliance with this Section is expected.

Section 5.4 requires that, in order to limit particulate matter emissions, an operator shall comply with one of the following requirements on and after the applicable NO_x compliance deadline specified in Section 5.2 Table 1:

- 5.4.1.1 operators shall fire units exclusively on PUC-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of such gases;
- 5.4.1.2 operators shall limit fuel sulfur content to no more than five (5) grains of total sulfur per one hundred (100) standard cubic feet; or
- 5.4.1.3 operators shall install and properly operate an emission control system that reduces SO₂ emissions by at least 95% by weight; or limit exhaust SO₂ to less than or equal to 9 ppmv corrected to 3.0% O₂.

The boiler N-802-9-10 is permitted to fire exclusively on PUC regulated gas. Therefore compliance with this Section is expected.

Boiler N-802-9-10 has a limit for SO_x, at 0.0029 lb-SO_x/MMBtu. Using the ideal gas equation, the SO_x concentration is converted into ppmv as follows.

$$VolumeSO_2 = \frac{n \cdot R \cdot T}{P} \times O_2 \text{ correction}$$

Where

n = moles SO₂

T = (Standard Temperature) = 60°F = 520°R

P = (Standard Pressure) = 14.7 psi

R = (Universal Gas Constant) = $\frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot \text{°R}}$

O₂ Correction (3% O₂) = $\frac{20.9 - 3}{20.9}$

$$\frac{0.0029 \text{ lb} \cdot \text{SO}_x}{\text{MMBtu}} \times \frac{1 \text{ MMBtu}}{8,578 \text{ ft}^3} \times \frac{1 \text{ lb} \cdot \text{Mol}}{64 \text{ lb}} \times \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{Mol} \cdot \text{°R}} \times \frac{520 \text{ °R}}{14.7 \text{ psi}} \times \frac{1,000,000}{\text{million}} \times \frac{20.9 - 3}{20.9} = 2 \text{ ppmv}$$

Since 2 ppmv is less than 9 ppmv, the boiler will comply with Section 5.4.1.3.

Conclusion

Compliance with District Rule 4320 is expected.

Rule 4352, Solid Fuel Fired Boilers, Steam Generators and Process Heaters

Pursuant to Section 5.1, NO_x emissions shall not exceed 0.2 lb/MMBtu, based on a 24 hour averaging period and CO emissions shall not exceed 400 ppmv @ 3% O₂.

N-802-1-16 is limited to 0.2 lb-NO_x/MMBtu and CO at 400 ppmv, this unit is expected to comply with this section of Rule 4352.

Section 5.5 of the rule requires that any unit with limestone injection for NO_x control shall operate a continuous emissions monitoring system (CEM) to monitor and record NO_x concentrations, NO_x emission rate, and either CO or O₂ concentrations.

The permit unit is equipped with limestone injection to control NO_x and equipped with CEMS. Therefore, this unit is expected to comply with this section of Rule 4352.

Section 6.2 of the rule requires facilities to maintain a monthly operating log that includes type and quantity of fuel used, and the hhv of such fuel.

Section 6.3 of the rule requires each unit be source tested annually, with the unit operating at normal conditions.

- Conditions 24, 28-30, 34, 35, 39, 40, and 48 of N-802-1-16 assure compliance with this rule.

40 CFR 60 Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978

This new source performance standard (NSPS) is intended to regulate emissions of NO_x, Sox, and PM from electric utility steam generating units for which construction is commenced after September 18, 1978. Unit N-802-1 at this facility commenced construction after 1978, so it is subject to the NSPS requirements in effect at the time.

The NSPS, and the emission limits ensuring compliance, are summarized in the following table and compliance is shown in conditions 39 and 41:

Pollutant	NSPS Standard	Permit Emission Limit
NO _x	0.5 lb/MMBtu	0.067 lb/MMBtu
PM ₁₀	0.03 lb/MMBtu	0.016 lb/MMBtu
SO _x	1.2 lb/MMBtu	0.095 lb/MMBtu

The NSPS also includes source testing, monitoring, record keeping, and reporting requirements for affected units. Conditions 32, 42, 43 and 50 of N-802-1 show compliance with this NSPS.

40 CFR 60 Subpart Db, Standards of Performance for Steam Generating Units With a Heat Input Greater Than 100 MMBtu/hr That Has Commenced Construction, Modification, or Reconstruction After June 19, 1984

The requirements of the Code of Federal Regulations, Chapter 40 (40 CFR), Part 60, Subpart Db apply to any steam generating unit with a heat input greater than 100 MMBtu/hr that has commenced construction, modification, or reconstruction after June 19, 1984. Unit N-802-9 is subject to the requirements of this Subpart.

§60.42b: Standard for sulfur dioxide (SO₂)

§60.43b: Standard for particulate matter (PM)

§60.44b: Standard for nitrogen oxides (NO_x)

The standard, and the emission limits ensuring compliance, are summarized in the following table:

Pollutant	NSPS Standard	Permit Emission Limit
NO _x	0.1 lb/MMBtu §60.44b(a), Item 1(i) in the table	0.008 lb/MMBtu
PM ₁₀	No standard exist for natal gas fired boilers	0.0076 lb/MMBtu
SO _x	0.2 lb/MMBtu §60.42b(k)(1)	0.0029 lb/MMBtu

Conditions 6, 9 and 10 ensure compliance with this section.

§60.45b: Compliance and performance test methods and procedure for sulfur dioxide

§60.45b(j) states:

“The owner or operator of an affected facility that only combusts very low sulfur oil, natural gas, or a mixture of these fuels with any other fuels not subject to an SO₂ standard is not subject to the compliance and performance testing requirements of this section if the owner or operator obtains fuel receipts as described in §60.49b(r).”

Condition 27 shows compliance with this section.

§60.46b: Compliance and performance test methods and procedure for particulate matter and nitrogen oxides

There are no PM standards for natural gas-fired boilers. Therefore, compliance and performance test methods are not discussed.

§60.46b(c) states:

“Compliance with the NO_x emission standards under §60.44b shall be determined through performance testing under paragraph (e) or (f), or under paragraphs (g) and (h) of this section, as applicable.”

§60.46b(e) states:

“To determine compliance with the emission limits for NO_x required under §60.44b, the owner or operator of an affected facility shall conduct the performance test as required under §60.8 using the continuous system for monitoring NO_x under §60.48(b).”

§60.48b(g) states:

“The owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MMBtu/hr) or less, and that has an annual capacity factor for . . . natural gas . . . greater than 10 percent (0.10) shall:

- (1) Comply with the provisions of paragraphs (b), (c), (d), (e)(2), (e)(3), and (f) of this section; or*
- (2) Monitor steam generating unit operating conditions and predict NO_x emission rates as specified in a plan submitted pursuant to §60.49b(c).*

§60.49b(c) states:

“The owner or operator of each affected facility subject to the NOx standard of §60.44b who seeks to demonstrate compliance with those standards through the monitoring of steam generating unit operating conditions under the provisions of §60.48b(g)(2) shall submit to the Administrator for approval a plan that identifies the operating conditions to be monitored under §60.48b(g)(2) and the records to be maintained under §60.49b(j). This plan shall be submitted to the Administrator for approval within 360 days of the initial startup of the affected facility. If the plan is approved, the owner or operator shall maintain records of predicted nitrogen oxide emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. ”

The facility's a monitoring plan (Refer to Appendix VI). This plan concludes that FGR rate will be determined on hourly basis using stack oxygen and windbox oxygen percentages, and will be compared with FGR rate established during the latest source test to demonstrate compliance with NOx and CO emission limits. This plan is acceptable to the District, as it is consistent the requirements of 40 CFR Part 60 Subpart Db.

Conditions 27 through 35 and 47 of N-802-9 show compliance with this rule.

40 CFR 60, Subpart HHHH, Emission Guidelines and Compliance Times for Coal-Fired Electric Steam Generating Units

This NSPS establishes the model rule for mercury (Hg) emissions trading program under the Clean Air Mercury Rule (CAMR). Units N-802-1 and '-9 are Hg budget units as defined in this subpart. However, CAMR was vacated on February 8, 2008 and the District has never adopted a rule based on this model rule. Furthermore, proposed Subpart UUUUU of 40 CFR 63 includes a provision removing the reserving Subpart HHHH of 40 CFR 60. Subpart HHHH will not be further discussed.

40 CFR 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters

40 CFR 63, Subpart JJJJJJ, national Emission Standards of Hazardous Air Pollutants for Area Sources: Industrial, Commercial and Institutional Boilers

These NESHAP are intended to regulate emission of HAP from boilers and process heaters at both major sources and area sources of HAP. Units N-802-1 and '-9 are electric generating units, subject to proposed NESHAP

Subpart UUUUU (once that Subpart is finalized) and therefore exempt for these boiler NESHAP.

However, both Subparts DDDDD and JJJJJ were published in the Federal Register on March 21, 2011 and have compliance deadlines no earlier than March 21, 2012. Therefore no new conditions are required at this time to ensure compliance with the requirements of these Subparts.

40 CFR 64, Compliance Assurance Monitoring (CAM)

40 CFR Part 64 requires Compliance Assurance Monitoring (CAM) for units that meet the following three criteria:

- the unit must have an emission limit for the pollutant;
- the unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
- the unit must have a pre-control potential to emit of greater than the major source thresholds.

i. N-802-1-16:

The previous Title V renewal N-1040427 determined this unit was in compliance with CAM, therefore, continued CAM compliance is expected and CAM determination is not required.

Conditions 42 and 66 through 70 of the permit requirements ensure continued compliance with CAM.

ii. N-802-2-9

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required.

PE_{controlled} = 401.5 lb-PM₁₀/yr (permit)
Controlled Efficiency (CE) = 99% (standard)

$$\begin{aligned}
PE_{\text{uncontrolled}} &= PE_{\text{controlled}} / (1-CE) \\
&= 401.5 \text{ lb-PM}_{10}/\text{yr} / (1-0.99) \\
&= 40,150 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ (major source)}
\end{aligned}$$

iii. N-802-3-3

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required. Emission Factor is taken from AP-42 Table 11.12-2 (6/06), *Emission Factors for Concrete Batching* and annual throuput is based upon the maximum annual through but with efficiency of control equipment assumed to be 99%.

$$\begin{aligned}
PE_{\text{controlled}} &= 0.00034 \text{ lb-PM}_{10}/\text{ton} \times 33,000 \text{ ton/year} \\
&= 11.22 \text{ lb/year}
\end{aligned}$$

Controlled Efficiency (CE) = 99% (standard)

$$\begin{aligned}
PE_{\text{uncontrolled}} &= PE_{\text{controlled}} / (1-CE) \\
&= 11.22 \text{ lb-PM}_{10}/\text{yr} / (1-0.99) \\
&= 1,122 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ (major source)}
\end{aligned}$$

iv. N-802-4-3

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required. Emission Factor is taken from AP-42 Table 11.12-2 (6/06), *Emission Factors for Concrete Batching* and annual throuput is based upon the maximum annual through but with efficiency of control equipment assumed to be 99%.

$$PE_{\text{controlled}} = 0.00034 \text{ lb-PM}_{10}/\text{ton} \times 150,000 \text{ ton/year} \\ = 51.0 \text{ lb/year}$$

Controlled Efficiency (CE) = 99% (standard)

$$PE_{\text{uncontrolled}} = PE_{\text{controlled}} / (1-CE) \\ = 51.0 \text{ lb-PM}_{10}/\text{yr} / (1-0.99) \\ = 5,100 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ (major source)}$$

v. N-802-5-4.

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required. Emission Factor is taken from AP-42 Table 11.12-2 (6/06), *Emission Factors for Concrete Batching* and annual throuput is based upon the maximum annual through but with efficiency of control equipment assumed to be 99%.

$$PE_{\text{controlled}} = 0.00034 \text{ lb-PM}_{10}/\text{ton} \times 75,000 \text{ ton/year} \\ = 25.5 \text{ lb/year}$$

Controlled Efficiency (CE) = 99% (standard)

$$PE_{\text{uncontrolled}} = PE_{\text{controlled}} / (1-CE) \\ = 25.5 \text{ lb-PM}_{10}/\text{yr} / (1-0.99) \\ = 2,550 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ (major source)}$$

vi. N-802-6-5

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required. Emission Factor is taken from AP-42 Table 11.12-2 (6/06),

Emission Factors for Concrete Batching and annual throuput is based upon the maximum annual through but with efficiency of control equipment assumed to be 99%.

$$\begin{aligned} PE_{\text{controlled}} &= 0.00034 \text{ lb-PM}_{10}/\text{ton} \times 150,000 \text{ ton/year} \\ &= 51.0 \text{ lb/year} \end{aligned}$$

Controlled Efficiency (CE) = 99% (standard)

$$\begin{aligned} PE_{\text{uncontrolled}} &= PE_{\text{controlled}} / (1-CE) \\ &= 51.0 \text{ lb-PM}_{10}/\text{yr} / (1-0.99) \\ &= 5,100 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ (major source)} \end{aligned}$$

vii. N-802-7-5

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required. Emission Factor is taken from AP-42 Table 11.12-2 (6/06), *Emission Factors for Concrete Batching* and annual throuput is based upon the maximum annual through but with efficiency of control equipment assumed to be 99%.

$$\begin{aligned} PE_{\text{controlled}} &= 0.00034 \text{ lb-PM}_{10}/\text{ton} \times 75,000 \text{ ton/year} \\ &= 25.5 \text{ lb/year} \end{aligned}$$

Controlled Efficiency (CE) = 99% (standard)

$$\begin{aligned} PE_{\text{uncontrolled}} &= PE_{\text{controlled}} / (1-CE) \\ &= 25.5 \text{ lb-PM}_{10}/\text{yr} / (1-0.99) \\ &= 2,550 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ (major source)} \end{aligned}$$

viii. N-802-8-7

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required.

PE_{controlled} = 1,204.5 lb-PM₁₀/yr (permit)
Controlled Efficiency (CE) = 99% (standard)

PE_{uncontrolled} = PE_{controlled} / (1-CE)
= 1,204.5 lb-PM₁₀/yr / (1-0.99)
= 120,450 lb-PM₁₀/yr < 140,000 (major source)

ix. *N-802-9-10*

NO_x:

Pre-controlled emissions, as shown below, are greater than major source thresholds; therefore, CAM for NO_x is required.

Natural Gas (from permit):
= natural gas emission factor x hourly heat input limit x annual
Hours of operation
= 0.008 lb-NO_x/MMBtu x 178 MMBtu/hr x 8760 hr/yr
= 12,474 lb-NO_x/yr

PE_{controlled} = 12,474 lb-NO_x/yr
Controlled Efficiency (CE) = 70% (standard)

PE_{uncontrolled} = PE_{controlled} / (1-CE)
= 12,474 lb- NO_x/yr / (1-0.70)
= 41,580 lb-NO_x/yr > 20,000 (major source)

The facility has chosen to monitor the flue gas recirculation rate by measuring the stack O₂ % and windbox O₂ % as an indicator of emission control system performance. The O₂ sensor monitors the O₂ concentration in the exhaust gas and windbox which provides feedback of the flue gas recirculation rate to ensure the boiler is functioning optimally.

Paragraph (b) (*Performance criteria*) requires the owner or operator to establish and maintain the following:

- Specifications to ensure that representative data are collected

By measuring both the stack O₂% by volume (O_s), and the windbox O₂% by volume (O_w) and utilizing the following equation: $FGR\ rate = \{O_w - 20.9\} / \{O_s - 20.9\} \times 100\%$ the flue gas recirculation rate is determined. Hourly, maintenance personnel will take a reading from the O₂ sensor. Sufficient data has been or will be collected for the unit operating in compliance to justify the once hourly readings as representative.

- Verification procedures for startup of new monitoring equipment
- Quality assurance and control practices to ensure continuing validity of data

Periodic (at least once every 24 months) source tests and monitoring with a portable analyzer (once per quarter) ensure readings from the O₂ sensors are an ongoing satisfactory indicator of the FGR rate.

- Data collection frequency and procedures

The District will require the facility to establish the minimum FGR rate that demonstrates continued compliance with the appropriate emission limits and then submit a minor modification application to incorporate that range within 12 months of the date of issuance of the renewed Title V operating permit.

Paragraph (c) (Evaluation factors) requires the owner or operator to take into account site specific factors in the design of the CAM system.

By measuring both the stack O₂% by volume (O_s), and the windbox O₂% by volume (O_w) and utilizing the following equation: $FGR\ rate = \{O_w - 20.9\} / \{O_s - 20.9\} \times 100\%$ the flue gas recirculation rate is determined. . Hourly, maintenance personnel will take a reading from the O₂ sensor. Sufficient data has been or will be collected for the unit operating in compliance to justify the once hourly readings as representative.

Periodic (at least once every 24 months) source tests and monitoring with a portable analyzer (once per quarter) ensure readings from the O₂ sensors are an ongoing satisfactory indicator of the FGR rate.

(c) Evaluation factors. In designing monitoring to meet the requirements of this section, the owner or operator shall take into account site-specific factors including the applicability of existing monitoring equipment and procedures, the ability of the monitoring to account for process and control device operational variability, the reliability and latitude built into the control technology, and the level of actual emissions relative to the compliance limitation.

The proposed CAM plan determines the FGR rate by utilizing existing O₂ sensors on the exhaust stack and windbox upstream of the FGR system serving the boiler. Therefore, no additional factors need to be evaluated and the requirements of this section are satisfied. No further discussion is required.

(d) Special criteria for the use of continuous emission monitoring system (CEMS), continuous opacity monitoring system (COMS) or predictive emission monitoring system (PEMS)

A CEMS, COMS, or PEMS is not necessary or required for the subject emission units. Therefore, the requirements of this section are not applicable and no further discussion is required.

Conditions 28 through 35 of N-802-9-10 show compliance with CAM requirements.

SO_x, PM₁₀, CO, VOC:

There are no control devices for these pollutants; therefore, CAM is not required.

x. *N-802-10-3*

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required. Emission Factor is taken from AP-42 Table 11.12-2 (6/06), *Emission Factors for Concrete Batching* and annual throuput is based upon the maximum annual through but with efficiency of control equipment assumed to be 99%.

$$\begin{aligned} PE_{\text{controlled}} &= 0.00034 \text{ lb-PM}_{10}/\text{ton} \times 150,000 \text{ ton/year} \\ &= 51.0 \text{ lb/year} \end{aligned}$$

Controlled Efficiency (CE) = 99% (standard)

$$\begin{aligned}
 PE_{\text{uncontrolled}} &= PE_{\text{controlled}} / (1-CE) \\
 &= 51.0 \text{ lb-PM}_{10}/\text{yr} / (1-0.99) \\
 &= 5,100 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ (major source)}
 \end{aligned}$$

xi. N-802-11-4

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required. Emission Factor is taken from AP-42 Table 11.12-2 (6/06), *Emission Factors for Concrete Batching* and annual throuput is based upon the maximum annual through but with efficiency of control equipment assumed to be 99%.

$$\begin{aligned}
 PE_{\text{controlled}} &= 0.00034 \text{ lb-PM}_{10}/\text{ton} \times 75,000 \text{ ton/year} \\
 &= 25.5 \text{ lb/year}
 \end{aligned}$$

Controlled Efficiency (CE) = 99% (standard)

$$\begin{aligned}
 PE_{\text{uncontrolled}} &= PE_{\text{controlled}} / (1-CE) \\
 &= 25.5 \text{ lb-PM}_{10}/\text{yr} / (1-0.99) \\
 &= 2,550 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ (major source)}
 \end{aligned}$$

xii. N-802-12-5

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required. Emission Factor is taken from AP-42 Table 11.12-2 (6/06), *Emission Factors for Concrete Batching* and annual throuput is based upon the maximum annual through but with efficiency of control equipment assumed to be 99%.

$$PE_{\text{controlled}} = 0.00034 \text{ lb-PM}_{10}/\text{ton} \times 150,000 \text{ ton/year}$$

$$= 51.0 \text{ lb/year}$$

Controlled Efficiency (CE) = 99% (standard)

$$PE_{\text{uncontrolled}} = PE_{\text{controlled}} / (1-CE)$$

$$= 51.0 \text{ lb-PM}_{10}/\text{yr} / (1-0.99)$$

$$= 5,100 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ (major source)}$$

xiii. *N-802-13-5*

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required. Emission Factor is taken from AP-42 Table 11.12-2 (6/06), *Emission Factors for Concrete Batching* and annual throuput is based upon the maximum annual through but with efficiency of control equipment assumed to be 99%.

$$PE_{\text{controlled}} = 0.00034 \text{ lb-PM}_{10}/\text{ton} \times 75,000 \text{ ton/year}$$

$$= 25.5 \text{ lb/year}$$

Controlled Efficiency (CE) = 99% (standard)

$$PE_{\text{uncontrolled}} = PE_{\text{controlled}} / (1-CE)$$

$$= 25.5 \text{ lb-PM}_{10}/\text{yr} / (1-0.99)$$

$$= 2,550 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ (major source)}$$

xiv. *N-802-14-3*

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

Pre-controlled emissions, as shown below, are less than major source thresholds; therefore, CAM for PM₁₀ is not required.

$PE_{\text{controlled}} = 126 \text{ lb-PM}_{10}/\text{yr}$ (permit)
Controlled Efficiency (CE) = 99% (standard)

$PE_{\text{uncontrolled}} = PE_{\text{controlled}} / (1-CE)$
 $= 126 \text{ lb-PM}_{10}/\text{yr} / (1-0.99)$
 $= 12,600 \text{ lb-PM}_{10}/\text{yr} < 140,000$ (major source)

xv. *N-802-16-3*

NO_x, SO_x, PM₁₀, CO, VOC:

There are no emission limits on this permit unit; therefore, CAM is not applicable.

xvi. *N-802-17-4*

NO_x, SO_x, CO, VOC:

There are no NO_x, SO_x, CO, or VOC emissions from this unit. Therefore, CAM for NO_x, SO_x, CO, or VOC is not required.

PM₁₀:

There are no control devices for PM₁₀; therefore, CAM for PM₁₀ is not required.

IX. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

A. Requirements Addressed by Model General Permit Templates

1. Model General Permit Template SJV-UM-0-3

By submitting Model General Permit Template SJV-UM-0-3 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template. Therefore, the permit shields as granted in Model General Permit Template is included as conditions 38 and 39 of the facility-wide requirements (N-2697-0-3).

The applicant does not propose to use any other model general permit templates.

B. Requirements not Addressed by Model General Permit Templates

The applicant has not requested a permit shield based on any permit requirements or for any subsumed requirements.

X. PERMIT CONDITIONS

See Attachment A - Renewed Title V Operating Permit.

XI. ATTACHMENTS

- A. Final Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Facility List
- D. District Response to EPA comments
- E. District Response to facility comments

ATTACHMENT A

Final Renewed Title V Operating Permit



Permit to Operate

FACILITY: N-802	EXPIRATION DATE: 10/31/2016
LEGAL OWNER OR OPERATOR:	AIR PRODUCTS MANUFACTURING CORPORATION
MAILING ADDRESS:	1010 ZEPHYR ST STOCKTON, CA 95206
FACILITY LOCATION:	1010 ZEPHYR ST STOCKTON, CA 95206
FACILITY DESCRIPTION:	ELECTRICAL POWER PLANT

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Seyed Sadredin
Executive Director / APCO

David Warner
Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: N-802-0-3

EXPIRATION DATE: 10/31/2016

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: AIR PRODUCTS MANUFACTURING CORPORATION

Location: 1010 ZEPHYR ST, STOCKTON, CA 95208

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10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin April 1st of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-1-16

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

COAL FIRED CIRCULATING FLUIDIZED BED BOILER (CAPACITY 550,000 LBS/HR STEAM) UTILIZING LIMESTONE INJECTION FOR SOX CONTROL, A THERMAL DENOX SYSTEM FOR NOX CONTROL, AND TWO CYCLONES VENTED TO A BAGHOUSE FOR PARTICULATE CONTROL

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere that exhibit greater than 20% opacity (6 minute average), except for one 6 minute period per hour of not more than 27% opacity. [40 CFR 60.42Da(b)] Federally Enforceable Through Title V Permit
2. The flue gas from the combustor shall be vented through a baghouse at all times (including soot blowing periods). [District NSR Rule] Federally Enforceable Through Title V Permit
3. The baghouse filtering media shall be fiberglass with a teflon B coating, or any other material that provides as good or better collection efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The boiler may be fired on Utah Equivalent coal, Canadian coal, fluid coke, tire derived fuel, delayed coke, or agriculturally derived biomass. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The amount of tire derived fuel used in the boiler shall not exceed 11% by weight of the total fuel used during any 48 hour period and not exceed 20% by weight of the total fuel used during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The annual heat input to the boiler from agriculturally derived biomass shall not exceed 50% of the boiler's heat input rating. [District Rule 2201] Federally Enforceable Through Title V Permit
10. An ultimate analysis for each stock of fuel, except for tire derived fuel, received shall be maintained on the premises at all times and shall be made available for District inspection upon request. The analysis shall include the heating value, and the Sulfur and Nitrogen content. Stock of fuel shall be defined as follows: rail delivered fuels - fuel delivered in one unit train; truck delivered fuels - fuel delivered during one week. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Natural gas fired burners shall be used during start-up to reach solid fuel ignition temperature throughout the combustor before feeding any solid fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The VOC emissions shall not exceed 1.86 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The PM10 emissions shall not exceed 9.82 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The NOx emissions shall not exceed 39 ppmv(wet) @ 13.6% CO2 (49.4 ppmv(dry) @ 3% O2) using a three hour averaging time. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The NOx concentration limitation of 39 ppmv(wet) @ 13.6% CO2 (49.4 ppmv(dry) @ 3% O2) shall not apply during start-up days. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The NOx emissions shall not exceed 54,180 pounds during the first calendar quarter, 54,782 pounds during the second calendar quarter, 55,384 pounds during the third calendar quarter, and 55,384 pounds during the fourth calendar quarter. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The cumulative NOx emissions shall not exceed 219,730 pounds during any one year from both the fluidized bed boiler and the 178 MMBtu/hr boiler (N-802-9). [District NSR Rule] Federally Enforceable Through Title V Permit
18. A record of the daily NOx emissions from the fluidized bed boiler shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
19. A record of the cumulative NOx emissions for the calendar year from both the fluidized bed boiler and the 178 MMBtu/hr boiler (N-802-9) shall be updated daily and kept on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
20. The CO emissions shall not exceed 38.00 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
21. The SOx emissions shall be the more restrictive of 59.17 pounds per hour as determined by an eight hour rolling average or a SOx removal efficiency of no less than 70% by weight using a three hour averaging time. [District NSR Rule] Federally Enforceable Through Title V Permit
22. The bottom ash from the bed and the fly ash from the economizer and baghouse shall be transferred to the ash silo via a totally air tight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
23. This boiler shall be in compliance with 40 CFR 60, Subparts A and Da: Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978. [PSD 85-04, District Rule 4001, and District Rule 1080, 6.7] Federally Enforceable Through Title V Permit
24. Source testing for NOx, CO, VOC, SOx, and PM10 emissions shall be conducted on an annual basis. [District Rule 4352, 6.3] Federally Enforceable Through Title V Permit
25. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Hourly emission rates for NOx, CO, VOC, SOx, and PM10 while source testing shall be calculated using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. Source testing to measure concentrations of oxides of nitrogen (as NO2) shall be conducted using EPA method 7E or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
29. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10 or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
30. Source testing to measure the stack gas oxygen (O2) shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
31. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA method 25, CARB method 100, SCAQMD method 25.3, or EPA method 18. [District Rule 2520, 9.3.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

32. Source testing to measure concentrations of oxides of sulfur (SO_x) as SO₂ shall be conducted using EPA methods 6, 8, CARB method 100, or SCAQMD 6.1. [40 CFR 60.46, (b)] Federally Enforceable Through Title V Permit
33. Source testing to measure concentrations of PM₁₀ shall be conducted using EPA method 201 and 202, EPA method 201a and 202, or CARB method 501 and 5, or SCAQMD Method 5.3 and 6.1. [40 CFR Subpart 51, Appendix M] Federally Enforceable Through Title V Permit
34. Source testing to measure stack gas velocity and volumetric flow rate shall be conducted using EPA method 2 or CARB method 2. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
35. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
36. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit
37. Sulfur compound emission shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
38. Particulate Matter emission shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
39. NO_x emissions shall not exceed 0.20 lb/MMBtu of heat input. [District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
40. CO emissions at dry stack gas conditions shall not exceed 400 ppmv @ 3% O₂. [District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
41. The following pollutant emission levels shall not be exceeded: 200 pounds per hour of sulfur compounds, calculated as sulfur dioxide (SO₂); 140 pounds per hour of nitrogen oxides, calculated as nitrogen dioxide (NO₂); and ten (10) pounds per hour of PM. [District Rule 4301, 5.2] Federally Enforceable Through Title V Permit
42. The exhaust stack shall be equipped with continuous monitors/recorders for opacity, SO₂, NO_x, O₂, & stack gas flow rate. The continuous emissions monitors shall meet the performance specifications in 40 CFR 60.13; 40 CFR 52, Appendix E; 40 CFR Part 51, Appendix P; 40 CFR Part 60, Appendix B; Relative Accuracy Audit of Appendix F or equivalent specification established by mutual agreement of the District, the ARB and the EPA. The sampling, analyzing and recording cycle shall be completed every successive 15 minute period. [District Rule 1080; 40 CFR 60.49Da; 40 CFR 64; and PSD 85-04] Federally Enforceable Through Title V Permit
43. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3; 40 CFR 60.7 (b)] Federally Enforceable Through Title V Permit
44. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. [District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
45. A violation of NO_x emission standards indicated by the NO_x CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
46. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEM. Operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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47. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
48. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.4 (as amended 05/18/06), or as certified by a third party fuel supplier. [District Rule 4352, 6.2] Federally Enforceable Through Title V Permit
49. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
50. As-fired fuel monitoring under 60.49Da(b)(3) may use the following definitions of fuel lot size: for rail delivered fuels- the quantity of each type of fuel delivered in one unit train; for truck delivered fuels - the quantity of each type of fuel delivered during one week. As-fired fuel samples for unit train deliveries may be taken as the unit train is loaded by the fuel supplier. [40 CFR 60.49Da(b)(3)] Federally Enforceable Through Title V Permit
51. The owner/operator shall continuously operate and maintain limestone injection for control of SO₂ emission and low bed temperature, staged combustion, and selective non-catalytic reduction for control of NO_x emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
52. A minimum SO₂ removal efficiency of 70% (3-hour average) shall be maintained at all times. [PSD 85-04] Federally Enforceable Through Title V Permit
53. There shall be no discharge of SO₂ in excess of 59 lbs/hr (8-hour average) or 100 lbs/hr (3-hour average) from the stack venting from the combustion unit. [PSD 85-04] Federally Enforceable Through Title V Permit
54. There shall be no discharge of NO₂ in excess of 42 lbs/hr or 50 ppm at 3% O₂ (3-hour average) from the stack venting from the fluidized bed combustion unit. [PSD 85-04] Federally Enforceable Through Title V Permit
55. Total NO_x emitted in any 90 day period shall not exceed 64,980 lbs (rolling 90-day total). [PSD 85-04] Federally Enforceable Through Title V Permit
56. Natural gas shall only be used as an auxiliary fuel source for the facility during startup to raise the temperature of the fluidized bed to the solid fuel ignition point before feeding any solid fuel. [PSD 85-04] Federally Enforceable Through Title V Permit
57. The owner/operator shall record and maintain records of the hours of operation and the amounts and types of fuel fired for each occurrence. [PSD 85-04] Federally Enforceable Through Title V Permit
58. The owner/operator shall maintain a file of all measurements, including continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [PSD 85-04] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

59. The owner/operator shall submit a written report of all excess emissions to EPA for every calendar quarter. The report shall include the following: a) the magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions; b) specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the fluidized bed combustion unit. The nature and cause of any malfunction (if known) and the corrective action taken or preventive measures adopted shall also be reported; c) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; d) when no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report; e) excess emissions shall be defined as any three-hour, or 90 day period during which the average emissions of NOx and/or SO2, as measured by the continuous monitoring system, exceeds the NOx and/or SO2 maximum emission limits set for each of the pollutants; f) excess emissions indicated by the CEM system shall be considered violations of the applicable emission limits for the purposes of the permit except for the NOx emission limit during normal facility startup; g) during a normal facility startup, excess NOx emissions shall not be considered a PSD permit violation provided the 90-day NOx emissions total (90-day rolling total) remains below 64,980 lbs. [PSD 85-04] Federally Enforceable Through Title V Permit
60. The 90 day total NOx emissions shall be calculated as a running hourly total of all NOx emissions. NOx emissions during periods when the NOx continuous emission monitor is inoperative shall be assumed to be 42 lbs/hr. [PSD 85-04] Federally Enforceable Through Title V Permit
61. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
62. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD 85-04] Federally Enforceable Through Title V Permit
63. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD 85-04] Federally Enforceable Through Title V Permit
64. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD 85-04] Federally Enforceable Through Title V Permit
65. All correspondence as required by this permit shall be forwarded to: a) Director, Air Division (Attn: AIR-3), EPA Region 9, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95812; c) Air Pollution Control Officer, San Joaquin Valley Air Pollution Control District, 1990 East Gettysburg Avenue, Fresno, CA, 93726-0244. [PSD 85-04] Federally Enforceable Through Title V Permit
66. Baghouse visible emissions shall be monitored in the boiler stack using the opacity monitor installed to comply with the opacity monitoring requirements of 40 CFR 60 Subpart Da while the unit is operating. [40 CFR Part 64] Federally Enforceable Through Title V Permit
67. The baghouse visible emissions as monitored by the boiler stack opacity monitor shall not exceed 2% opacity on a 3-hour rolling average while the boiler is operating. Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
68. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

69. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
70. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
71. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
72. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
73. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
74. The permittee shall maintain records of the actual SO_x emissions from this unit for each 12 consecutive-month rolling period for a period of 5 years beginning on the date the unit starts operation under this permit for the purposes of demonstrating that there has not been a "significant net emissions increase" above the historic actual SO_x emissions level of 266,220 lb/year reported under project N1092178. The actual net emissions increase shall be calculated in accordance with 40 CFR 51.165. If a significant net emissions increase above the actual SO_x emissions level (i.e., 266,220 lb/year) occurs during any 12 consecutive months in the 5 year recordkeeping period, the permittee shall submit a permit application to modify the permit to meet the Major Modification requirements that were avoided under project N1092178; that is, "Top-Down Best Available Control Technology Analysis" for SO_x emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
75. The auxiliary boiler (N-802-9) can be operated simultaneously with the CFB boiler (N-802-1) for up to 250 hours per year including periods of CFB boiler startup, shutdown, and emissions testing of the auxiliary boiler required by the EPA, CARB or the District. The permittee shall keep sufficient records to demonstrate compliance with the requirements of this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
76. The auxiliary boiler may operate any time that the CFB boiler is not operating. [District Rule 2201] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-2-9

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

BOTTOM ASH STORAGE AND LOADOUT WITH A WET ROTARY ASH LOADOUT SYSTEM AND DRY ASH FLEXIBLE LOADOUT SPOUT

PERMIT UNIT REQUIREMENTS

1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The bottom ash from the boiler shall be transferred into the storage silo only through a totally air tight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The ash shall be loaded into outgoing trucks through a wet rotary ash loadout system. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The ash storage silo shall be totally air tight and only vented through a baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The baghouse shall have a maximum air to cloth ratio of 3.12:1 and shall be equipped with an automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Particulate matter emissions from the baghouse shall not exceed 1.1 pounds during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. A minimum of 10 percent (by weight) of water shall be added uniformly to the outgoing ash before loading into trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
10. A test shall be conducted upon District request to document the moisture content of the ash. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Required testing shall be conducted no later than 30 days following a request by the District and shall be conducted according to methods approved by the District. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Dry ash shall only be loaded into enclosed hopper trucks using a flexible loadout spout, which extends inside the enclosed hopper truck. [District NSR Rule] Federally Enforceable Through Title V Permit
13. No more than 90 tons of dry bottom ash shall be loaded into trucks during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
14. PM10 emissions from loading of dry ash into trucks shall not exceed 0.0048 pounds per ton of dry ash loaded. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

16. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
18. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
19. Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
20. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-3-3

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:
LIMESTONE RECEIVING AND STORAGE

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Limestone shall be received through direct coupled pneumatic unloading trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The pneumatic transfer components and connections shall be totally air tight. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The storage silo shall be totally air tight and vented only through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The vent filter shall have a maximum air to cloth ratio of 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
6. There shall be no visible emissions from the vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Limestone shall be transferred to the boiler only through a totally air tight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
10. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
13. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

14. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-4-3

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

400 TPH: BELT CONVEYOR #1 AND EN-MASSE CONVEYER #2

PERMIT UNIT REQUIREMENTS

1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
3. All transfer points shall be totally enclosed and shall be vented to a baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The belt conveyor shall be covered. [District NSR Rule] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The baghouse shall have a maximum air cloth ratio of 5:1 and shall be equipped with an automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
9. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
12. Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-5-4

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:
STORAGE SILO #1 (3000 TON CAPACITY)

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Each silo shall be totally enclosed and vented only through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Each vent filter shall have a maximum air to cloth ratio 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
4. There shall be no visible emissions from the vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
10. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-6-5

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

125 TPH COAL CRUSHER, BELT CONVEYOR #3 WITH EN-MASSSED CONVEYER #5

PERMIT UNIT REQUIREMENTS

1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
3. All transfer points shall be totally enclosed and shall be vented to a baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The belt conveyor shall be covered. [District NSR Rule] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The baghouse shall have a maximum air cloth ratio of 5:1 and shall be equipped with an automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
9. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
12. Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-7-5

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:
PLANT SILO #1 (660 TON CAPACITY)

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Each silo shall be totally enclosed and vented only through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Each vent filter shall have a maximum air to cloth ratio 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
4. There shall be no visible emissions from the vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
10. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-8-7

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

FLY ASH STORAGE, LOADOUT SYSTEM AND A MIDWEST INDUSTRIES VACUULATOR VENTED TO AN INTEGRAL DUST COLLECTOR

PERMIT UNIT REQUIREMENTS

1. The fly ash from the baghouse and the economizer shall be transferred into storage silos only through a totally airtight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Ash shall be loaded into outgoing trucks through either a wet rotary ash load-out system or a telescopic spout. If the telescopic spout is used, the emissions at the loadout point shall be vented through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
3. A minimum of 10 percent (by weight) of water shall be added uniformly to the outgoing ash before loading into the trucks via the wet rotary ash loadout system. [District NSR Rule] Federally Enforceable Through Title V Permit
4. A test shall be conducted upon request by the District to document the moisture content of the ash. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The test shall be conducted no later than 30 days following a request by the District and shall be conducted according to methods approved by the District. [District Rule 4201] Federally Enforceable Through Title V Permit
6. The ash storage silo shall be totally air tight and only vented through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The vent filters serving the storage silo shall have a maximum air to cloth ratio of 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
11. PM10 emissions from the vent filter shall not exceed 3.3 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
13. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
14. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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15. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-9-10

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

178 MMBTU/HR ZURN MODEL 22M KEYSTONE AUXILIARY BOILER WITH A TODD MODEL RMB ULTRA LOW NOX BURNER AND A FLUE GAS RECIRCULATION (FGR) SYSTEM

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, or 0.1 grain/dscf calculated to 12% CO₂ or 10 lb/hr. [District Rules 4201 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
3. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD] Federally Enforceable Through Title V Permit
4. A fuel flow meter dedicated to this boiler shall be utilized to monitor the quantity of natural gas fuel burned by the boiler on an hourly basis whenever the boiler is operating. Monitoring shall not be required if the unit is not in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This boiler shall be fired exclusively on PUC-regulated natural gas fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
6. NO_x emissions shall not exceed 7.0 ppmvd @ 3% O₂ referenced as NO₂. [District Rules 2201, 4301, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
7. CO emissions shall not exceed 50 ppmvd @ 3% O₂. [District Rule 2201] Federally Enforceable Through Title V Permit
8. VOC emissions shall not exceed 3 ppmvd @ 3% O₂ referenced as methane. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM₁₀ emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. SO_x emissions shall not exceed 0.0029 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All emission measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. Compliance determinations shall be conducted with the unit operating at conditions representative of normal operations. [District Rules 4305, 4306, 4320 and 4351] Federally Enforceable Through Title V Permit
12. The combined NO_x emissions from this boiler and the fluidized bed boiler (N-802-1) shall not exceed 42 lb/hr (3-hour rolling average). [PSD] Federally Enforceable Through Title V Permit
13. The combined NO_x emissions from this boiler and the fluidized bed boiler (N-802-1) in any 90-day period shall not exceed 64,980 lb (running 90-day total). [PSD] Federally Enforceable Through Title V Permit
14. The cumulative NO_x emissions shall not exceed 219,730 pounds during any one year from both the fluidized bed boiler (N-802-1) and this boiler. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

15. Operator shall ensure that all required source testing conforms with the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Source testing for NOx and CO emissions shall be conducted as required by Rule 4306 - "Boilers, Steam Generators, and Process Heaters - Phase 3". [District Rules 4306 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Source tests shall be performed not less than once every 12 months. Upon demonstrating compliance on two consecutive compliance source tests, the following source test may be deferred for up to 36 months. If a test shows noncompliance, the source shall return to annual source testing until compliance is again shown for two consecutive years. [District Rules 4305, 4306, 4320 and 4351] Federally Enforceable Through Title V Permit
18. During the 36-month source testing interval, the owner or operator shall have this unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
19. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year. This unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
20. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
21. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
22. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
24. Source testing to measure concentrations of oxides of nitrogen (as NO2) shall be conducted using EPA method 7E or CARB method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
25. Source testing to measure concentrations of carbon monoxide (as CO) shall be conducted using EPA method 10 or CARB method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
26. Source testing to measure the stack gas oxygen shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
27. The permittee shall either: a.) perform fuel analysis to determine the following parameters: methane content (%), heating value (Btu/dscf), and sulfur content (gr-S/100 dscf); or b.) obtain and maintain a copy of valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts that contains methane content (%), heating value (Btu/dscf), and sulfur content (gr-S/100 dscf) to verify compliance with the SOx emission limits in this permit. If the permittee decide to conduct fuel analysis, the fuel sample shall be collected within 60 days of startup under this permit and weekly thereafter. Upon successful compliance demonstration on eight consecutive weeks testing, the monitoring frequency shall be every quarter. If the result of any quarterly monitoring fails to demonstrate compliance with SOx emissions, weekly monitoring shall resume until compliance is demonstrated for eight consecutive weeks. [District Rules 2201 and 4320, 40 CFR 60.45b] Federally Enforceable Through Title V Permit
28. The flue gas recirculation rate shall be determined at least on an hourly basis by measuring the stack O2% by volume (Os), and windbox O2% by volume (Ow) using the following equation: $FGR \text{ rate} = \{Ow - 20.9\} / \{Os - 20.9\} \times 100\%$. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306 and 4320 and 40 CFR 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

29. The minimum flue gas recirculation rate shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be no lower than the minimum flue gas recirculation rate with which compliance with applicable NOx and CO emission limits has been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306 and 4320 and 40 CFR 64] Federally Enforceable Through Title V Permit
30. If the flue gas recirculation rate is less than the normal range/level, the permittee shall return the flue gas recirculation rate to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation rate is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation rate. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320 and 40 CFR 64] Federally Enforceable Through Title V Permit
31. The permittee shall maintain records of the date and time of oxygen concentration measurements, the measured oxygen concentrations, the calculated flue gas recirculation rate, and the firing rate at the time of the oxygen concentration measurements. The records shall also include a description of any corrective action taken to maintain the flue gas recirculation rate within the acceptable range. [District Rules 4305, 4306 and 4320 and 40 CFR 64] Federally Enforceable Through Title V Permit
32. The operator shall submit a Title V minor modification application to incorporate the minimum flue gas recirculation rate within twelve months from the date in which the renewed Title V permit is issued. [District Rule 2520, 9.3.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
33. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
34. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64] Federally Enforceable Through Title V Permit
35. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64] Federally Enforceable Through Title V Permit
36. The auxiliary boiler (N-802-9) can be operated simultaneously with the CFB boiler (N-802-1) for up to 250 hours per year including periods of CFB boiler startup, shutdown, and emissions testing of the auxiliary boiler required by the EPA, CARB or the District. The permittee shall keep sufficient records to demonstrate compliance with the requirements of this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
37. The auxiliary boiler may operate any time that the CFB boiler is not operating. [District Rule 2201] Federally Enforceable Through Title V Permit
38. When in simultaneous operation with the CFB boiler (N-802-1), the auxiliary boiler's firing rate shall not exceed 36.6 MMBtu/hr except during: 1.) periods of CFB boiler startup or shutdown, or 2.) a period of less than 10 hours duration to conduct any emissions testing for the auxiliary boiler required by the EPA, the California Air Resources Board, or the District. For the purposes of this condition, CFB boiler startup and shutdown periods shall be defined as follows: A.) Following CFB boiler repairs that require curing of the refractory material, the startup period shall begin upon initiation of continuous fuel flow to the CFB boiler and shall end after 40 hours or when the generator output reaches 45 MW, whichever comes first. B.) For all startups other than those described in item A above, the startup period shall begin upon initiation of continuous fuel flow to the boiler and shall not last more than 16 hours. [PSD] Federally Enforceable Through Title V Permit
39. The owner or operator shall record and maintain records of the hours of operation and the amounts and types of fuel fired for each occurrence. [PSD] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

40. Hourly NOx emissions shall be calculated as the product of the hourly heat input and the maximum allowable NOx emissions rate. [PSD] Federally Enforceable Through Title V Permit
41. The owner/operator shall maintain a file of all measurements, including continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [PSD] Federally Enforceable Through Title V Permit
42. A record of the daily NOx emissions shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
43. A record of the cumulative NOx emissions for the calendar year from both the fluidized bed boiler (N-802-1) and this boiler shall be updated daily and kept on the premises at all times. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
44. Daily records of the natural gas usage shall be kept. [District Rules 4305, 6.0; 4306, 6.0; and 2520, 9.4.2] Federally Enforceable Through Title V Permit
45. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070; 2520, 9.4.2; 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
46. This boiler shall be in compliance with Title 40, Code of Federal Regulations, Part 60, Subparts A and Db. The owner or operator shall comply with the terms of the plan submitted under the provisions of ⁺ 60.48b(g)(2); specifically: i.) The owner or operator shall demonstrate compliance with the applicable standard for nitrogen oxides by hourly monitoring the flue gas recirculation rate as established by this unit's source test, and ii.) The owner or operator shall maintain records of the auxiliary boiler's fuel usage for at least five years and make these records available to EPA upon request. [40 CFR Part 60, Subpart Db and PSD] Federally Enforceable Through Title V Permit
47. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD] Federally Enforceable Through Title V Permit
48. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD] Federally Enforceable Through Title V Permit
49. The owner and operator shall operate the stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD] Federally Enforceable Through Title V Permit
50. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244. [PSD] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-10-3

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:
COAL/DELAYED COKE RECEIVING SYSTEM

PERMIT UNIT REQUIREMENTS

1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The fuel unloading facility shall be equipped with electrically operated roll-up doors at the entry and exit to provide total enclosure. All fugitive emissions shall be vented through a baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The baghouse shall have a maximum effective air to cloth ratio of 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Coal and delayed coke shall be received only via bottom unloading trucks or railcars. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The particulate matter emissions from the baghouse serving the coal/delayed coke unloading facility shall not exceed 0.3 pounds per day and there shall be no visible emissions from the coal/delay coke unloading building. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
10. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-11-4

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:
STORAGE SILO #2 (3000 TON CAPACITY)

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Each silo shall be totally enclosed and vented only through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Each vent filter shall have a maximum air to cloth ratio 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
4. There shall be no visible emissions from the vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
10. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-12-5

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

125 TPH BELT CONVEYOR #4 SERVED BY THE 125 TPH GRINDER (N-802-6) AND BY THE TIRE DERIVED FUEL (TDF) HANDLING EQUIPMENT (N-802-17) VENTED TO BAGHOUSE DC-3

PERMIT UNIT REQUIREMENTS

1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
3. All transfer points shall be totally enclosed and shall be vented to a baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The belt conveyor shall be covered. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Visible emissions from the dust collector shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The baghouse shall have a maximum air cloth ratio of 5:1 and shall be equipped with an automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
9. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
12. Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59xP^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37xP^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-13-5

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:
PLANT SILO #2 (660 TON CAPACITY)

PERMIT UNIT REQUIREMENTS

1. Each silo shall be totally enclosed and vented only through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Each vent filter shall have a maximum air to cloth ratio of 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
3. There shall be no visible emissions from the vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
10. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-14-3

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

FLUID PETROLEUM COKE STORAGE AND HANDLING SYSTEM WITH A 600 TON STORAGE SILO VENTED TO A FLEX-KLEEN WSTS-81 PULSE JET BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
5. All equipment of this operation shall be maintained dust tight. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM10 emission concentration shall not exceed 0.0004 lbs/ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The maximum amount of fluid coke received during any one day shall not exceed 864 tons. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Records shall be kept indicating the amount of fluid coke received and the date received. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
11. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

14. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-16-3

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

FOUR CELL MECHANICAL DRAFT COOLING TOWER WITH A CIRCULATION RATE OF 25,000 GPM

PERMIT UNIT REQUIREMENTS

1. No hexavalent chromium containing compounds shall be added to the cooling tower circulating water. [District Rule 7012, 5.2.1]
2. A list of materials added to the cooling tower and their Material Safety Data Sheets (MSDS) shall be kept and made available for District inspection upon request. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: AIR PRODUCTS MANUFACTURING CORPORATION

Location: 1010 ZEPHYR ST, STOCKTON, CA 95206

N-802-16-3 : Jan 12 2012 4:16PM -- MASLOWST

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-17-4

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

TIRE DERIVED FUEL (TDF) AND DELAYED COKE RECEIVING AND HANDLING SYSTEM CONSISTING OF THREE COVERED RECEIVING BINS SERVING THREE WALKING FLOOR COVERED TRAILERS AND TWO COVERED TROUGH CONVEYORS SERVING THE EXISTING #4 ENCLOSED SOLID FUEL CONVEYOR

PERMIT UNIT REQUIREMENTS

1. All conveyors, receiving bins, and walking floor trailers shall be covered or enclosed. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The amount of tire derived fuel received and handled shall not exceed 264 tons during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The PM10 emissions from the tire derived fuel unloading and conveying to conveyor #4 shall not exceed 6.0E-4 pounds per ton of tire derived fuel received. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The amount of delayed coke fuel received and handled shall not exceed 150 tons during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The PM10 emissions from the delayed coke unloading and conveying to conveyor #4 shall not exceed 0.002 pounds per ton of delayed coke received. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Daily records shall be kept and maintained on the premises indicating the amount of tire derived fuel and delayed coke received. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
7. The unit shall be inspected annually for visible emissions during operation. If any visible emissions are observed, corrective action shall be taken. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

ATTACHMENT B

Previous Title V Operating Permit



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT



Permit to Operate

FACILITY: N-802

EXPIRATION DATE: 10/31/2009

LEGAL OWNER OR OPERATOR:

AIR PRODUCTS MANUFACTURING CORPORATION

MAILING ADDRESS:

1010 ZEPHYR ST
STOCKTON, CA 95206

FACILITY LOCATION:

1010 ZEPHYR ST
STOCKTON, CA 95206

FACILITY DESCRIPTION:

ELECTRICAL POWER PLANT

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

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Executive Director / APCO

David Warner

Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: N-802-0-2

EXPIRATION DATE: 10/31/2009

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: AIR PRODUCTS MANUFACTURING CORPORATION
Location: 1010 ZEPHYR ST, STOCKTON, CA 95206
N-802-0-2: Jan 12 2012 4:07PM - MASLOWST

10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (11/15/01). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (10/31/01). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), and Rule 111 (Kern, Tulare, Kings). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin April 1st of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-1-19

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

COAL FIRED CIRCULATING FLUIDIZED BED BOILER (CAPACITY 550,000 LBS/HR STEAM) UTILIZING LIMESTONE INJECTION FOR SOX CONTROL, A THERMAL DENOX SYSTEM FOR NOX CONTROL, AND TWO CYCLONES VENTED TO A BAGHOUSE FOR PARTICULATE CONTROL

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere that exhibit greater than 20% opacity (6 minute average), except for one 6 minute period per hour of not more than 27% opacity. [40 CFR 60.42Da(b)] Federally Enforceable Through Title V Permit
2. The flue gas from the combustor shall be vented through a baghouse at all times (including soot blowing periods). [District NSR Rule] Federally Enforceable Through Title V Permit
3. The baghouse filtering media shall be fiberglass with a teflon B coating, or any other material that provides as good or better collection efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The boiler may be fired on Utah Equivalent coal, Canadian coal, fluid coke, tire derived fuel, delayed coke, or agriculturally derived biomass. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The amount of tire derived fuel used in the boiler shall not exceed 11% by weight of the total fuel used during any 48 hour period and not exceed 20% by weight of the total fuel used during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The annual heat input to the boiler from agriculturally derived biomass shall not exceed 50% of the boiler's heat input rating. [District Rule 2201] Federally Enforceable Through Title V Permit
10. An ultimate analysis for each stock of fuel, except for tire derived fuel, received shall be maintained on the premises at all times and shall be made available for District inspection upon request. The analysis shall include the heating value, and the Sulfur and Nitrogen content. Stock of fuel shall be defined as follows: rail delivered fuels - fuel delivered in one unit train; truck delivered fuels - fuel delivered during one week. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Natural gas fired burners shall be used during start-up to reach solid fuel ignition temperature throughout the combustor before feeding any solid fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The VOC emissions shall not exceed 1.86 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The PM10 emissions shall not exceed 9.82 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The NOx emissions shall not exceed 39 ppmv(wet) @ 13.6% CO2 (49.4 ppmv(dry) @ 3% O2) using a three hour averaging time. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The NOx concentration limitation of 39 ppmv(wet) @ 13.6% CO2 (49.4 ppmv(dry) @ 3% O2) shall not apply during start-up days. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The NOx emissions shall not exceed 54,180 pounds during the first calendar quarter, 54,782 pounds during the second calendar quarter, 55,384 pounds during the third calendar quarter, and 55,384 pounds during the fourth calendar quarter. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The cumulative NOx emissions shall not exceed 219,730 pounds during any one year from both the fluidized bed boiler and the 178 MMBtu/hr boiler (N-802-9). [District NSR Rule] Federally Enforceable Through Title V Permit
18. A record of the daily NOx emissions from the fluidized bed boiler shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
19. A record of the cumulative NOx emissions for the calendar year from both the fluidized bed boiler and the 178 MMBtu/hr boiler (N-802-9) shall be updated daily and kept on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
20. The CO emissions shall not exceed 38.00 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
21. The SOx emissions shall be the more restrictive of 59.17 pounds per hour as determined by an eight hour rolling average or a SOx removal efficiency of no less than 70% by weight using a three hour averaging time. [District NSR Rule] Federally Enforceable Through Title V Permit
22. The bottom ash from the bed and the fly ash from the economizer and baghouse shall be transferred to the ash silo via a totally air tight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
23. This boiler shall be in compliance with 40 CFR 60, Subparts A and Da: Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978. [PSD 85-04, District Rule 4001, and District Rule 1080, 6.7] Federally Enforceable Through Title V Permit
24. Source testing for NOx, CO, VOC, SOx, and PM10 emissions shall be conducted on an annual basis. [District Rule 4352, 6.3] Federally Enforceable Through Title V Permit
25. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Hourly emission rates for NOx, CO, VOC, SOx, and PM10 while source testing shall be calculated using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. Source testing to measure concentrations of oxides of nitrogen (as NO2) shall be conducted using EPA method 7E or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
29. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10 or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
30. Source testing to measure the stack gas oxygen (O2) shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
31. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA method 25, CARB method 100, SCAQMD method 25.3, or EPA method 18. [District Rule 2520, 9.3.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

32. Source testing to measure concentrations of oxides of sulfur (SO_x) as SO₂ shall be conducted using EPA methods 6, 8, CARB method 100, or SCAQMD 6.1. [40 CFR 60.46, (b)] Federally Enforceable Through Title V Permit
33. Source testing to measure concentrations of PM₁₀ shall be conducted using EPA method 201 and 202, EPA method 201a and 202, or CARB method 501 and 5, or SCAQMD Method 5.3 and 6.1. [40 CFR Subpart 51, Appendix M] Federally Enforceable Through Title V Permit
34. Source testing to measure stack gas velocity and volumetric flow rate shall be conducted using EPA method 2 or CARB method 2. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
35. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
36. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit
37. Sulfur compound emission shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
38. Particulate Matter emission shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
39. NO_x emissions shall not exceed 0.20 lb/MMBtu of heat input. [District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
40. CO emissions at dry stack gas conditions shall not exceed 400 ppmv @ 3% O₂. [District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
41. The following pollutant emission levels shall not be exceeded: 200 pounds per hour of sulfur compounds, calculated as sulfur dioxide (SO₂); 140 pounds per hour of nitrogen oxides, calculated as nitrogen dioxide (NO₂); and ten (10) pounds per hour of PM. [District Rule 4301, 5.2] Federally Enforceable Through Title V Permit
42. The exhaust stack shall be equipped with continuous monitors/recorders for opacity, SO₂, NO_x, O₂, & stack gas flow rate. The continuous emissions monitors shall meet the performance specifications in 40 CFR 60.13; 40 CFR 52, Appendix E; 40 CFR Part 51, Appendix P; 40 CFR Part 60, Appendix B; Relative Accuracy Audit of Appendix F or equivalent specification established by mutual agreement of the District, the ARB and the EPA. The sampling, analyzing and recording cycle shall be completed every successive 15 minute period. [District Rule 1080; 40 CFR 60.49Da; 40 CFR 64; and PSD 85-04] Federally Enforceable Through Title V Permit
43. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3; 40 CFR 60.7 (b)] Federally Enforceable Through Title V Permit
44. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. [District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
45. A violation of NO_x emission standards indicated by the NO_x CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
46. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEM. Operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

47. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
48. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.4 (as amended 05/18/06), or as certified by a third party fuel supplier. [District Rule 4352, 6.2] Federally Enforceable Through Title V Permit
49. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
50. As-fired fuel monitoring under 60.49Da(b)(3) may use the following definitions of fuel lot size: for rail delivered fuels- the quantity of each type of fuel delivered in one unit train; for truck delivered fuels - the quantity of each type of fuel delivered during one week. As-fired fuel samples for unit train deliveries may be taken as the unit train is loaded by the fuel supplier. [40 CFR 60.49Da(b)(3)] Federally Enforceable Through Title V Permit
51. The owner/operator shall continuously operate and maintain limestone injection for control of SO₂ emission and low bed temperature, staged combustion, and selective non-catalytic reduction for control of NO_x emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
52. A minimum SO₂ removal efficiency of 70% (3-hour average) shall be maintained at all times. [PSD 85-04] Federally Enforceable Through Title V Permit
53. There shall be no discharge of SO₂ in excess of 59 lbs/hr (8-hour average) or 100 lbs/hr (3-hour average) from the stack venting from the combustion unit. [PSD 85-04] Federally Enforceable Through Title V Permit
54. There shall be no discharge of NO₂ in excess of 42 lbs/hr or 50 ppm at 3% O₂ (3-hour average) from the stack venting from the fluidized bed combustion unit. [PSD 85-04] Federally Enforceable Through Title V Permit
55. Total NO_x emitted in any 90 day period shall not exceed 64,980 lbs (rolling 90-day total). [PSD 85-04] Federally Enforceable Through Title V Permit
56. Natural gas shall only be used as an auxiliary fuel source for the facility during startup to raise the temperature of the fluidized bed to the solid fuel ignition point before feeding any solid fuel. [PSD 85-04] Federally Enforceable Through Title V Permit
57. The owner/operator shall record and maintain records of the hours of operation and the amounts and types of fuel fired for each occurrence. [PSD 85-04] Federally Enforceable Through Title V Permit
58. The owner/operator shall maintain a file of all measurements, including continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [PSD 85-04] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

59. The owner/operator shall submit a written report of all excess emissions to EPA for every calendar quarter. The report shall include the following: a) the magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions; b) specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the fluidized bed combustion unit. The nature and cause of any malfunction (if known) and the corrective action taken or preventive measures adopted shall also be reported; c) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; d) when no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report; e) excess emissions shall be defined as any three-hour, or 90 day period during which the average emissions of NOx and/or SO2, as measured by the continuous monitoring system, exceeds the NOx and/or SO2 maximum emission limits set for each of the pollutants; f) excess emissions indicated by the CEM system shall be considered violations of the applicable emission limits for the purposes of the permit except for the NOx emission limit during normal facility startup; g) during a normal facility startup, excess NOx emissions shall not be considered a PSD permit violation provided the 90-day NOx emissions total (90-day rolling total) remains below 64,980 lbs. [PSD 85-04] Federally Enforceable Through Title V Permit
60. The 90 day total NOx emissions shall be calculated as a running hourly total of all NOx emissions. NOx emissions during periods when the NOx continuous emission monitor is inoperative shall be assumed to be 42 lbs/hr. [PSD 85-04] Federally Enforceable Through Title V Permit
61. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
62. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD 85-04] Federally Enforceable Through Title V Permit
63. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD 85-04] Federally Enforceable Through Title V Permit
64. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD 85-04] Federally Enforceable Through Title V Permit
65. All correspondence as required by this permit shall be forwarded to: a) Director, Air Division (Attn: AIR-3), EPA Region 9, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95812; c) Air Pollution Control Officer, San Joaquin Valley Air Pollution Control District, 1990 East Gettysburg Avenue, Fresno, CA, 93726-0244. [PSD 85-04] Federally Enforceable Through Title V Permit
66. Baghouse visible emissions shall be monitored in the boiler stack using the opacity monitor installed to comply with the opacity monitoring requirements of 40 CFR 60 Subpart Da while the unit is operating. [40 CFR Part 64] Federally Enforceable Through Title V Permit
67. The baghouse visible emissions as monitored by the boiler stack opacity monitor shall not exceed 2% opacity on a 3-hour rolling average while the boiler is operating. Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
68. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

69. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
70. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
71. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
72. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
73. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
74. The permittee shall maintain records of the actual SO_x emissions from this unit for each 12 consecutive-month rolling period for a period of 5 years beginning on the date the unit starts operation under this permit for the purposes of demonstrating that there has not been a "significant net emissions increase" above the historic actual SO_x emissions level of 266,220 lb/year reported under project N1092178. The actual net emissions increase shall be calculated in accordance with 40 CFR 51.165. If a significant net emissions increase above the actual SO_x emissions level (i.e., 266,220 lb/year) occurs during any 12 consecutive months in the 5 year recordkeeping period, the permittee shall submit a permit application to modify the permit to meet the Major Modification requirements that were avoided under project N1092178; that is, "Top-Down Best Available Control Technology Analysis" for SO_x emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
75. The auxiliary boiler (N-802-9) can be operated simultaneously with the CFB boiler (N-802-1) for up to 250 hours per year including periods of CFB boiler startup, shutdown, and emissions testing of the auxiliary boiler required by the EPA, CARB or the District. The permittee shall keep sufficient records to demonstrate compliance with the requirements of this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
76. The auxiliary boiler may operate any time that the CFB boiler is not operating. [District Rule 2201] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-2-8

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

BOTTOM ASH STORAGE AND LOADOUT WITH A WET ROTARY ASH LOADOUT SYSTEM AND DRY ASH FLEXIBLE LOADOUT SPOUT

PERMIT UNIT REQUIREMENTS

1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The bottom ash from the boiler shall be transferred into the storage silo only through a totally air tight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The ash shall be loaded into outgoing trucks through a wet rotary ash loadout system. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The ash storage silo shall be totally air tight and only vented through a baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The baghouse shall have a maximum air to cloth ratio of 3.12:1 and shall be equipped with an automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Particulate matter emissions from the baghouse shall not exceed 1.1 pounds during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. A minimum of 10 percent (by weight) of water shall be added uniformly to the outgoing ash before loading into trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
10. A test shall be conducted upon District request to document the moisture content of the ash. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Required testing shall be conducted no later than 30 days following a request by the District and shall be conducted according to methods approved by the District. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Dry ash shall only be loaded into enclosed hopper trucks using a flexible loadout spout, which extends inside the enclosed hopper truck. [District NSR Rule] Federally Enforceable Through Title V Permit
13. No more than 90 tons of dry bottom ash shall be loaded into trucks during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
14. PM10 emissions from loading of dry ash into trucks shall not exceed 0.0048 pounds per ton of dry ash loaded. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

16. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
18. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
19. Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
20. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-3-2

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:
LIMESTONE RECEIVING AND STORAGE

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Limestone shall be received through direct coupled pneumatic unloading trucks. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The pneumatic transfer components and connections shall be totally air tight. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The storage silo shall be totally air tight and vented only through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The vent filter shall have a maximum air to cloth ratio of 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
6. There shall be no visible emissions from the vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Limestone shall be transferred to the boiler only through a totally air tight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
10. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
13. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

14. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-4-2

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

400 TPH: BELT CONVEYOR #1 AND EN-MASSE CONVEYER #2

PERMIT UNIT REQUIREMENTS

1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
3. All transfer points shall be totally enclosed and shall be vented to a baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The belt conveyor shall be covered. [District NSR Rule] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The baghouse shall have a maximum air cloth ratio of 5:1 and shall be equipped with an automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
9. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
12. Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59xP^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37xP^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-5-3

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:
STORAGE SILO #1 (3000 TON CAPACITY)

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Each silo shall be totally enclosed and vented only through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Each vent filter shall have a maximum air to cloth ratio 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
4. There shall be no visible emissions from the vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
10. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-6-3

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

125 TPH COAL CRUSHER, BELT CONVEYOR #3 WITH EN-MASSSED CONVEYER #5

PERMIT UNIT REQUIREMENTS

1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
3. All transfer points shall be totally enclosed and shall be vented to a baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The belt conveyor shall be covered. [District NSR Rule] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The baghouse shall have a maximum air cloth ratio of 5:1 and shall be equipped with an automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
9. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
12. Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-7-4

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:
PLANT SILO #1 (660 TON CAPACITY)

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Each silo shall be totally enclosed and vented only through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Each vent filter shall have a maximum air to cloth ratio 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
4. There shall be no visible emissions from the vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
10. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-8-6

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

FLY ASH STORAGE, LOADOUT SYSTEM AND A MIDWEST INDUSTRIES VACUULATOR VENTED TO AN INTEGRAL DUST COLLECTOR

PERMIT UNIT REQUIREMENTS

1. The fly ash from the baghouse and the economizer shall be transferred into storage silos only through a totally airtight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Ash shall be loaded into outgoing trucks through either a wet rotary ash load-out system or a telescopic spout. If the telescopic spout is used, the emissions at the loadout point shall be vented through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
3. A minimum of 10 percent (by weight) of water shall be added uniformly to the outgoing ash before loading into the trucks via the wet rotary ash loadout system. [District NSR Rule] Federally Enforceable Through Title V Permit
4. A test shall be conducted upon request by the District to document the moisture content of the ash. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The test shall be conducted no later than 30 days following a request by the District and shall be conducted according to methods approved by the District. [District Rule 4201] Federally Enforceable Through Title V Permit
6. The ash storage silo shall be totally air tight and only vented through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The vent filters serving the storage silo shall have a maximum air to cloth ratio of 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
11. PM10 emissions from the vent filter shall not exceed 3.3 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
13. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
14. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

15. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-9-11

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

178 MMBTU/HR ZURN MODEL 22M KEYSTONE AUXILIARY BOILER WITH A TODD MODEL RMB ULTRA LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, or 0.1 grain/dscf calculated to 12% CO₂ or 10 lb/hr. [District Rules 4201 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
3. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD] Federally Enforceable Through Title V Permit
4. A fuel flow meter dedicated to this boiler shall be utilized to monitor the quantity of natural gas fuel burned by the boiler on an hourly basis whenever the boiler is operating. Monitoring shall not be required if the unit is not in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This boiler shall be fired exclusively on PUC-regulated natural gas fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
6. NO_x emissions shall not exceed 7.0 ppmvd @ 3% O₂ referenced as NO₂. [District Rules 2201, 4301, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
7. CO emissions shall not exceed 50 ppmvd @ 3% O₂. [District Rule 2201] Federally Enforceable Through Title V Permit
8. VOC emissions shall not exceed 3 ppmvd @ 3% O₂ referenced as methane. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM₁₀ emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. SO_x emissions shall not exceed 0.0029 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All emission measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. Compliance determinations shall be conducted with the unit operating at conditions representative of normal operations. [District Rules 4305, 4306, 4320 and 4351] Federally Enforceable Through Title V Permit
12. The combined NO_x emissions from this boiler and the fluidized bed boiler (N-802-1) shall not exceed 42 lb/hr (3-hour rolling average). [PSD] Federally Enforceable Through Title V Permit
13. The combined NO_x emissions from this boiler and the fluidized bed boiler (N-802-1) in any 90-day period shall not exceed 64,980 lb (running 90-day total). [PSD] Federally Enforceable Through Title V Permit
14. The cumulative NO_x emissions shall not exceed 219,730 pounds during any one year from both the fluidized bed boiler (N-802-1) and this boiler. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

15. Operator shall ensure that all required source testing conforms with the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Source testing for NO_x and CO emissions shall be conducted as required by Rule 4306 - "Boilers, Steam Generators, and Process Heaters - Phase 3". [District Rules 4306 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Source tests shall be performed not less than once every 12 months. Upon demonstrating compliance on two consecutive compliance source tests, the following source test may be deferred for up to 36 months. If a test shows noncompliance, the source shall return to annual source testing until compliance is again shown for two consecutive years. [District Rules 4305, 4306, 4320 and 4351] Federally Enforceable Through Title V Permit
18. During the 36-month source testing interval, the owner or operator shall have this unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
19. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year. This unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
20. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
21. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
22. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
24. Source testing to measure concentrations of oxides of nitrogen (as NO₂) shall be conducted using EPA method 7E or CARB method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
25. Source testing to measure concentrations of carbon monoxide (as CO) shall be conducted using EPA method 10 or CARB method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
26. Source testing to measure the stack gas oxygen shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
27. The permittee shall either: a.) perform fuel analysis to determine the following parameters: methane content (%), heating value (Btu/dscf), and sulfur content (gr-S/100 dscf); or b.) obtain and maintain a copy of valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts that contains methane content (%), heating value (Btu/dscf), and sulfur content (gr-S/100 dscf) to verify compliance with the SO_x emission limits in this permit. If the permittee decide to conduct fuel analysis, the fuel sample shall be collected within 60 days of startup under this permit and weekly thereafter. Upon successful compliance demonstration on eight consecutive weeks testing, the monitoring frequency shall be every quarter. If the result of any quarterly monitoring fails to demonstrate compliance with SO_x emissions, weekly monitoring shall resume until compliance is demonstrated for eight consecutive weeks. [District Rules 2201 and 4320, 40 CFR 60.45b] Federally Enforceable Through Title V Permit
28. The flue gas recirculation rate shall be determined at least on an hourly basis by measuring the stack O₂% by volume (O_s), and windbox O₂% by volume (O_w) using the following equation: $FGR\ rate = \{O_w - 20.9\} / \{O_s - 20.9\} \times 100\%$. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

29. The minimum flue gas recirculation rate shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be no lower than the minimum flue gas recirculation rate with which compliance with applicable NO_x and CO emission limits has been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
30. If the flue gas recirculation rate is less than the normal range/level, the permittee shall return the flue gas recirculation rate to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation rate is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation rate. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
31. The permittee shall maintain records of the date and time of oxygen concentration measurements, the measured oxygen concentrations, the calculated flue gas recirculation rate, and the firing rate at the time of the oxygen concentration measurements. The records shall also include a description of any corrective action taken to maintain the flue gas recirculation rate within the acceptable range. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
32. The auxiliary boiler (N-802-9) can be operated simultaneously with the CFB boiler (N-802-1) for up to 250 hours per year including periods of CFB boiler startup, shutdown, and emissions testing of the auxiliary boiler required by the EPA, CARB or the District. The permittee shall keep sufficient records to demonstrate compliance with the requirements of this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
33. The auxiliary boiler may operate any time that the CFB boiler is not operating. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Including periods of startup and shutdown, the total annual heat input to the auxiliary boiler shall not exceed 155,928 MMBtu (10% capacity), except for a one-time-only exemption period as follows: 1.) During the exemption period, the auxiliary boiler and the CFB boiler (N-802-1) shall not be in simultaneous operation. 2.) The exemption shall begin on the date specified by Stockton CoGen Company in its written notification and shall end upon startup of the CFB boiler. Under no circumstances shall the exemption period exceed 90 days. The notification shall be sent to the EPA Region 9 Air Permits Office and to the District in writing at least 10 days prior to the beginning of the exemption period. 3.) Within 30 days after the end of the exemption period, Stockton CoGen Company shall notify the EPA and the District in writing of the actual startup date of the CFB boiler. 4.) For the year in which the exemption period occurs, heat input (calculated as a 12-month rolling average starting the month the exemption period begins) to the auxiliary boiler shall not exceed the lesser of 501,960 MMBtu or the limit determined by the following formula: $H = (4,272 * E) + [427.2 * (365 - E)]$, where H = allowable heat input to the auxiliary boiler (MMBtu), and E = length of exemption period (days) as defined in item 2 above. [PSD] Federally Enforceable Through Title V Permit
35. When in simultaneous operation with the CFB boiler (N-802-1), the auxiliary boiler's firing rate shall not exceed 36.6 MMBtu/hr except during: 1.) periods of CFB boiler startup or shutdown, or 2.) a period of less than 10 hours duration to conduct any emissions testing for the auxiliary boiler required by the EPA, the California Air Resources Board, or the District. For the purposes of this condition, CFB boiler startup and shutdown periods shall be defined as follows: A.) Following CFB boiler repairs that require curing of the refractory material, the startup period shall begin upon initiation of continuous fuel flow to the CFB boiler and shall end after 40 hours or when the generator output reaches 45 MW, whichever comes first. B.) For all startups other than those described in item A above, the startup period shall begin upon initiation of continuous fuel flow to the boiler and shall not last more than 16 hours. [PSD] Federally Enforceable Through Title V Permit
36. The owner or operator shall record and maintain records of the hours of operation and the amounts and types of fuel fired for each occurrence. [PSD] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

37. Hourly NOx emissions shall be calculated as the product of the hourly heat input and the maximum allowable NOx emissions rate. [PSD] Federally Enforceable Through Title V Permit
38. The owner/operator shall maintain a file of all measurements, including continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [PSD] Federally Enforceable Through Title V Permit
39. A record of the daily NOx emissions shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
40. A record of the cumulative NOx emissions for the calendar year from both the fluidized bed boiler (N-802-1) and this boiler shall be updated daily and kept on the premises at all times. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
41. Daily records of the natural gas usage shall be kept. [District Rules 4305, 6.0; 4306, 6.0; and 2520, 9.4.2] Federally Enforceable Through Title V Permit
42. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070; 2520, 9.4.2; 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
43. This boiler shall be in compliance with Title 40, Code of Federal Regulations, Part 60, Subparts A and Db. The owner or operator shall comply with the terms of the plan submitted under the provisions of ⁺ 60.48b(g)(2); specifically: i.) The owner or operator shall demonstrate compliance with the applicable standard for nitrogen oxides by hourly monitoring the flue gas recirculation rate as established by this unit's source test, and ii.) The owner or operator shall maintain records of the auxiliary boiler's fuel usage for at least five years and make these records available to EPA upon request. [40 CFR Part 60, Subpart Db and PSD] Federally Enforceable Through Title V Permit
44. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD] Federally Enforceable Through Title V Permit
45. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD] Federally Enforceable Through Title V Permit
46. The owner and operator shall operate the stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD] Federally Enforceable Through Title V Permit
47. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244. [PSD] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-10-2

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:
COAL/DELAYED COKE RECEIVING SYSTEM

PERMIT UNIT REQUIREMENTS

1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The fuel unloading facility shall be equipped with electrically operated roll-up doors at the entry and exit to provide total enclosure. All fugitive emissions shall be vented through a baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The baghouse shall have a maximum effective air to cloth ratio of 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Coal and delayed coke shall be received only via bottom unloading trucks or railcars. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The particulate matter emissions from the baghouse serving the coal/delayed coke unloading facility shall not exceed 0.3 pounds per day and there shall be no visible emissions from the coal/delay coke unloading building. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
10. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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13. Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-11-3

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:
STORAGE SILO #2 (3000 TON CAPACITY)

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Each silo shall be totally enclosed and vented only through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Each vent filter shall have a maximum air to cloth ratio 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
4. There shall be no visible emissions from the vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
10. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-12-4

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

125 TPH BELT CONVEYOR #4 SERVED BY THE 125 TPH GRINDER (N-802-6) AND BY THE TIRE DERIVED FUEL (TDF) HANDLING EQUIPMENT (N-802-17) VENTED TO BAGHOUSE DC-3

PERMIT UNIT REQUIREMENTS

1. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
3. All transfer points shall be totally enclosed and shall be vented to a baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The belt conveyor shall be covered. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Visible emissions from the dust collector shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The baghouse shall have a maximum air cloth ratio of 5:1 and shall be equipped with an automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
9. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
12. Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-13-4

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

PLANT SILO #2 (660 TON CAPACITY)

PERMIT UNIT REQUIREMENTS

1. Each silo shall be totally enclosed and vented only through a vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Each vent filter shall have a maximum air to cloth ratio of 5:1 and shall be equipped with automatic pulse jet cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
3. There shall be no visible emissions from the vent filter. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
10. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-14-2

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

FLUID PETROLEUM COKE STORAGE AND HANDLING SYSTEM WITH A 600 TON STORAGE SILO VENTED TO A FLEX-KLEEN WSTS-81 PULSE JET BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
5. All equipment of this operation shall be maintained dust tight. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The PM10 emission concentration shall not exceed 0.0004 lbs/ton of material received. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The maximum amount of fluid coke received during any one day shall not exceed 864 tons. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Records shall be kept indicating the amount of fluid coke received and the date received. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. Particulate Matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
11. Dust collection system shall be inspected annually while in operation for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Dust collector filters shall be inspected annually while not in operation for tears, scuffs, abrasions, or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

14. Visible emissions from the vent filter shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-16-2

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

FOUR CELL MECHANICAL DRAFT COOLING TOWER WITH A CIRCULATION RATE OF 25,000 GPM

PERMIT UNIT REQUIREMENTS

1. No hexavalent chromium containing compounds shall be added to the cooling tower circulating water. [District Rule 7012, 5.2.1]
2. A list of materials added to the cooling tower and their Material Safety Data Sheets (MSDS) shall be kept and made available for District inspection upon request. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: AIR PRODUCTS MANUFACTURING CORPORATION

Location: 1010 ZEPHYR ST, STOCKTON, CA 95208

N-802-16-2 : Jan 12 2012 4:08PM - MASLOWST

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-802-17-3

EXPIRATION DATE: 10/31/2009

EQUIPMENT DESCRIPTION:

TIRE DERIVED FUEL (TDF) AND DELAYED COKE RECEIVING AND HANDLING SYSTEM CONSISTING OF THREE COVERED RECEIVING BINS SERVING THREE WALKING FLOOR COVERED TRAILERS AND TWO COVERED TROUGH CONVEYORS SERVING THE EXISTING #4 ENCLOSED SOLID FUEL CONVEYOR

PERMIT UNIT REQUIREMENTS

1. All conveyors, receiving bins, and walking floor trailers shall be covered or enclosed. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The amount of tire derived fuel received and handled shall not exceed 264 tons during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The PM10 emissions from the tire derived fuel unloading and conveying to conveyor #4 shall not exceed 6.0E-4 pounds per ton of tire derived fuel received. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The amount of delayed coke fuel received and handled shall not exceed 150 tons during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The PM10 emissions from the delayed coke unloading and conveying to conveyor #4 shall not exceed 0.002 pounds per ton of delayed coke received. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Daily records shall be kept and maintained on the premises indicating the amount of tire derived fuel and delayed coke received. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
7. The unit shall be inspected annually for visible emissions during operation. If any visible emissions are observed, corrective action shall be taken. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

ATTACHMENT C

Detailed Facility List

Detailed Facility Report
For Facility=802
Sorted by Facility Name and Permit Number

AIR PRODUCTS MANUFACTURING CORPORATION 1010 ZEPHYR ST STOCKTON, CA 95206	FAC # STATUS: TELEPHONE:	N 802 A	TYPE: TOXIC ID:	TitleV 21185	EXPIRE ON: AREA: INSP. DATE:	10/31/2009 1 / 05/12
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-802-1-16	49,000 kW	3020-08A G	1	10,215.00	10,215.00	A	COAL FIRED CIRCULATING FLUIDIZED BED BOILER (CAPACITY 550,000 LBS/HR STEAM) UTILIZING LIMESTONE INJECTION FOR SOX CONTROL, A THERMAL DENOX SYSTEM FOR NOX CONTROL, AND TWO CYCLONES VENTED TO A BAGHOUSE FOR PARTICULATE CONTROL
N-802-2-9	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	BOTTOM ASH STORAGE AND LOADOUT WITH A WET ROTARY ASH LOADOUT SYSTEM AND DRY ASH FLEXIBLE LOADOUT SPOUT
N-802-3-3	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	LIMESTONE RECEIVING AND STORAGE
N-802-4-3	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	400 TPH: BELT CONVEYOR #1 AND EN-MASSE CONVEYER #2
N-802-5-4	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	STORAGE SILO #1 (3000 TON CAPACITY)
N-802-6-5	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	125 TPH COAL CRUSHER, BELT CONVEYOR #3 WITH EN-MASSED CONVEYER #5
N-802-7-5	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	PLANT SILO #1 (660 TON CAPACITY)
N-802-8-7	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	FLY ASH STORAGE, LOADOUT SYSTEM AND A MIDWEST INDUSTRIES VACULoader VENTED TO AN INTEGRAL DUST COLLECTOR
N-802-9-10	178 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	178 MMBTU/HR ZURN MODEL 22M KEYSTONE AUXILIARY BOILER WITH A TODD MODEL RMB ULTRA LOW NOX BURNER AND A FLUE GAS RECIRCULATION (FGR) SYSTEM
N-802-10-3	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	COAL/DELAYED COKE RECEIVING SYSTEM
N-802-11-4	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	STORAGE SILO #2 (3000 TON CAPACITY)
N-802-12-5	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	125 TPH BELT CONVEYOR #4 SERVED BY THE 125 TPH GRINDER (N-802-6) AND BY THE TIRE DERIVED FUEL (TDF) HANDLING EQUIPMENT (N-802-17) VENTED TO BAGHOUSE DC-3
N-802-13-5	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	PLANT SILO #2 (660 TON CAPACITY)
N-802-14-3	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	FLUID PETROLEUM COKE STORAGE AND HANDLING SYSTEM WITH A 600 TON STORAGE SILO VENTED TO A FLEX-KLEEN WSTS-81 PULSE JET BAGHOUSE
N-802-15-0	28,850 KBTU	3020-02 H	1	1,030.00	1,030.00	D	ZURN 28.85 MMBTU/HR BOILER (MODEL 30,000-350) EQUIPPED WITH A ZURN ERIE CITY NATURAL GAS FIRED BURNER
N-802-16-3	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	FOUR CELL MECHANICAL DRAFT COOLING TOWER WITH A CIRCULATION RATE OF 25,000 GPM

Detailed Facility Report
For Facility=802
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-802-17-4	COMPONENT: POWER GENERATION	999-99	1	0.00	0.00	A	TIRE DERIVED FUEL (TDF) AND DELAYED COKE RECEIVING AND HANDLING SYSTEM CONSISTING OF THREE COVERED RECEIVING BINS SERVING THREE WALKING FLOOR COVERED TRAILERS AND TWO COVERED TROUGH CONVEYORS SERVING THE EXISTING #4 ENCLOSED SOLID FUEL CONVEYOR
N-802-18-2	47 HP	3020-01 B	1	117.00	117.00	D	COAL TRUCK LOADOUT SYSTEM CONSISTING OF TWO FEEDERS EACH SERVED BY THE 3000 TON LIVE STORAGE SILOS, 200 TPH TRANSFER CONVEYOR #8, 200 TON TRUCK LOADOUT CONVEYOR, AND A TRUCK LOADING CHUTE AND SHROUD SYSTEM ALL VENTED TO A PULSE JET BAGHOUSE (DC-2). ***** DELETED ON 2/15/2002 PER APPLICANT'S REQUEST - NRP *****

Number of Facilities Reported: 1

ATTACHMENT D

District Response To EPA Comments

Comment 1

Permit Units: N-802-3-3, N-802-4-3, N-802-5-4, N-802-6-5, N-802-7-5, N-802-10-3, N-802-11-4, N-802-12-5, N-802-13-5

In the evaluation of CAM applicability for the above listed material handling and processing equipment, the District states that CAM does not apply because the equipment does not have any emission limits. Each of the above listed equipment is subject to at least one PM emission limit and a zero visible emissions standard. (For example, see Permit unit 3, conditions 14 and 6.) CAM applies if "The unit is subject to an emission limitation or standard for the applicable regulated air pollutant (or surrogate thereof)". In addition, the definition of "emission limitation or standard" in the CAM rule states that "An emission limitation or standard may also be expressed either as a work practice, process or control device parameter, or other form of specific design, equipment, operational, or operation and maintenance requirement." This equipment is subject to an emission limitation or standard because the units are subject to a work practice standard that limits PM emissions. The District must revise its CAM applicability determination by evaluating CAM for the above listed material handling and processing equipment.

District's Response

The District recalculated Uncontrolled PM10 emissions for the above units and included the calculations in Section VIII above.

Comment 2

Permit Unit: N-802-1-16 – Coal-fired CFB boiler

In the evaluation of CAM applicability for the above listed coal-fired boiler, the District states that a "CAM determination is not required" because the previous Title V permit determined that this unit was in compliance with CAM and continued compliance is expected. However, the evaluation for the previous Title V is not provided or specifically referenced so that it is available for review. Therefore it is not clear that this unit is subject to CAM. The district should revise its analysis to either better reference the previous CAM determination, or add the determination to this evaluation.

District's Response

The District made reference to the previous Title V renewal, N-1040427(which had previously been sent to EPA) containing the CAM discussion so no change needs to be made.

ATTACHMENT E

District Response To Facility Comments

Facility Comment

Attachment A, Renewed Title V Operating Permit, lists the current revision number as N-802-1-16. Attachment B, Previous Title V Operating Permit , lists the previous number as N-802-1-19. We believe that this was a clerical error in assembly of the Notice of Preliminary Decision – Title V Permit Renewal; the current revision number should be N-802-1-19.

District Response

The number of the Title V renewal is established as when the application is logged in upon receipt so it may not follow chronologically with further iterations of the permit unit.

Facility Comment

Attachment A, Renewed Title V Operating Permit, lists the current revision number as N-802-9-0. Attachment B, Previous Title V Operating Permit , lists the previous number as N-802-9-11. We believe that this was a clerical error in assembly of the Notice of Preliminary Decision – Title V Permit Renewal; the current revision number should be N-802-9-11.

Condition number 38 in permit revision N-802-9-10 is in direct conflict with condition 37. Condition 38 which limits the annual heat input to the auxiliary boiler and allows for a one time exemption from this heat input limit was supposed to be removed from the operating permit once the modified EPA PSD permit was implemented, which added condition 37, allowing for unlimited auxiliary boiler operation when the CFB boiler was not in operation. The modified IPA PSD permit, SJ 85-04 was implemented on October 16th, 2011. Notification of this minor modification was given to the District on October 7th, 2011 to become effective on the 16th of October 2011. We request that permit condition 38 in N-802-9-10 be removed.

District Response

The number of the Title V renewal is established as when the application is logged in upon receipt so it may not follow chronologically with further iterations of the permit unit.

The inclusion of condition 38 was an oversight on the District's part and has been removed from the permit consistent with N-1091430.

Facility Comment

The proposed permit does not reflect the addition of N-802-19-2 authorized through project N-1103053.

District Response

Any pending minor modification or administrative amendment projects will be processed after the issuance of the title V renewal.